10/644676

L1: Entry 2 of 3   File: USPT   Apr 11, 2000

US-PAT-NO: 6049269
DOCUMENT-IDENTIFIER: US 6049269 A

TITLE: Wide area wireless system for access into vehicles and fleets for control, security, messaging, reporting and tracking

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Byrd; Joseph E.	Raleigh	NC		
Kasparian; Kaspar A.	Raleigh	NC		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Telectronics, Inc.	Raleigh	NC			02

APPL-NO: 08/ 626809   [PALM]
DATE FILED: April 3, 1996

INT-CL: [07] B60 R 25/10

US-CL-ISSUED: 340/426; 340/425.5, 340/539, 307/10.2
US-CL-CURRENT: 340/426.21; 307/10.2, 340/425.5, 340/426.11, 340/539.1

FIELD-OF-SEARCH: 379/44, 379/57, 379/63, 364/424.045, 340/311.1, 340/426, 340/425.5, 340/825.44, 340/539, 367/10.2, 367/10.3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4754255	June 1988	Sanders	340/426
☐	5479157	December 1995	Suman et al.	340/825.31
☐	5588038	December 1996	Snyder	379/57
☐	5606307	February 1997	Kuan	340/426

ART-UNIT: 276

PRIMARY-EXAMINER: Hopsass; Jeffery A.

ASSISTANT-EXAMINER: Pope; Daryl C.

ATTY-AGENT-FIRM: Breneman & Georges

ABSTRACT:

A new add-on vehicular system is capable of responding to large area or nation-wide commands over paging networks, to remotely foil the unauthorized use or theft of a vehicle or a fleet automobile or a group of fleet vehicles, as well as to help the recovery of stolen vehicles. The preferred embodiment of the system comprises a paging receiver and decoder, a microcontroller with embedded programmable software and memory and a vehicular systems control interface. The system does not require central monitoring systems, or portable controls or vehicular user set controls or portable key chain controls or keypads or cellular phones or separation of vehicular transceivers from owner carried transceivers to activate the system. In a second embodiment, a two-way radio paging approach is employed in the system to expand its capabilities and to additionally provide remotely controlled transmission of data from vehicles, including data pertaining to the position coordinates of the vehicle.

57 Claims, 6 Drawing figures

L1: Entry 1 of 3   File: USPT   Jun 12, 2001

US-PAT-NO: 6246325
DOCUMENT-IDENTIFIER: US 6246325 B1

TITLE: Distributed communications system for reducing equipment down-time

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chittipeddi; Sailesh	Allentown	PA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Agere Systems Guardian Corp.	Miami Lakes	FL			02

APPL-NO: 09/ 442688   [PALM]
DATE FILED: November 18, 1999

INT-CL: [07] G08 B 21/00

US-CL-ISSUED: 340/540; 340/506, 340/522, 340/531, 340/825.36, 700/108, 700/241, 702/194, 702/185.
US-CL-CURRENT: 340/540; 340/506, 340/522, 340/531, 340/825.36, 700/108, 700/241, 702/185, 702/194

FIELD-OF-SEARCH: 340/540, 340/522, 340/506, 340/524, 340/531, 340/533, 340/534, 340/539, 340/825.36, 700/241, 700/108, 399/10, 399/18, 702/33, 702/34, 702/36, 702/58, 702/59, 702/182, 702/184, 702/185

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4390750	June 1983	Bartelink	379/42
☐	4412292	October 1983	Sedam et al.	700/241
☐	4622538	November 1986	Whynacht et al.	340/506
☐	4856047	August 1989	Saunders	379/57
☐	5029290	July 1991	Parsons et al.	340/533
☐	5061916	October 1991	French et al.	340/522

☐	5325156	June 1994	Ulinski	355/209
☐	5414494	May 1995	Aikens et al.	355/202
☐	5666585	September 1997	Nagira et al.	399/10
☐	5710723	January 1998	Hoth et al.	702/181
☐	5907491	May 1999	Canada et al.	700/108
☐	6032001	February 2000	Miyawaki	399/8

ART-UNIT: 262

PRIMARY-EXAMINER: Wu; Daniel J.

ASSISTANT-EXAMINER: Pham; Toan

ATTY-AGENT-FIRM: Mendelsohn; Steve

ABSTRACT:

A system and method to more-efficiently exchange information between a service provider, such as a semiconductor company, and its remote equipment units. The system capable of immediately handling a number of information items, each belonging to a different remote equipment unit is disclosed. The system includes a central controller configured for interfacing with a plurality of remote equipment units via a wireless network. The central controller is configured to receive information from each remote equipment unit via a wireless network. This information includes alarm conditions and corresponding requests for repair. Each of the remote equipment units is identified by a unique code which is included in the information transmitted to the computer to identify the source (i.e., identity of the transmitting remote equipment unit). The central controller uses the code of the transmitting remote equipment unit to retrieve the corresponding data record stored in its memory. The repair person identified in the selected data record is then contacted automatically, e.g., by wireless paging. The system may be programmed with a pre-determined routine maintenance schedule for each remote equipment unit. Based on this schedule, the system automatically contacts the appropriate repair person by wireless paging and dispatches the repair person to the corresponding remote equipment unit for routine maintenance. Thus, the down-time of the remote equipment unit is reduced because the alarm condition is immediately transmitted to the central controller and the corresponding repair person is contacted automatically. There is no undesired down-time before monitoring personnel notices the alarm condition and contacts the corresponding repair person.

17 Claims, 6 Drawing figures

☐ Generate Collection   Print

L1: Entry 3 of 3   File: USPT   Sep 1, 1998

US-PAT-NO: 5802467
DOCUMENT-IDENTIFIER: US 5802467 A

TITLE: Wireless and wired communications, command, control and sensing system for sound and/or data transmission and reception

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salazar; Joe Andrew	Lompoc	CA		
Molero-Castro; Luis	Madrid			ES

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Innovative Intelcom Industries	Lompoc	CA			02

APPL-NO: 08/ 535801   [PALM]
DATE FILED: September 28, 1995

INT-CL: [06] H04 M 11/00

US-CL-ISSUED: 455/420; 455/419, 340/825.72
US-CL-CURRENT: 455/420; 340/825.72, 455/419, 704/275

FIELD-OF-SEARCH: 379/56, 379/102, 379/96, 379/58, 379/67, 455/89, 455/231, 455/420, 455/556, 455/566, 455/402

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4338492	July 1982	Snopko	179/2
☐	4349701	September 1982	Snopko	179/2TV
☐	4356509	October 1982	Skerlos et al.	358/85
☐	4377729	March 1983	Stacy	179/2TV
☐	4392022	July 1983	Carlson	179/2TV
☐	4414432	November 1983	Skerlos et al.	179/2TV

☐	4427847	January 1984	Hofmann et al.	179/2TV
☐	4456925	June 1984	Skerlos et al.	358/85
☐	4465902	August 1984	Zato	179/2TV
☐	4482947	November 1984	Zato et al.	364/138
☐	4508935	April 1985	Mastromoro	179/2EA
☐	4626847	December 1986	Zato	340/825.56
☐	4718112	January 1988	Shinoda	455/231
☐	4775996	October 1988	Emerson et al.	379/56
☐	4855746	August 1989	Stacy	341/176
☐	4999622	March 1991	Amano et al.	340/825.72
☐	5138649	August 1992	Krisbergh et al.	455/420
☐	5268666	December 1993	Michel et al.	455/402
☐	5341167	August 1994	Guichard et al.	348/14
☐	5369685	November 1994	Kero	379/67
☐	5428388	June 1995	Von Bauer et al.	455/556
☐	5481595	January 1996	Ohashi et al.	379/67
☐	5584054	December 1996	Tyneski et al.	455/565

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0133798	June 1988	JP	379/56
429202	May 1991	GB	379/58

OTHER PUBLICATIONS

Installation Manual--Jerrold Starfone.RTM. Two-Way Converters Impulse 7000 Series, published by General Instrument, Jerrold Division, Technical Publications Department (Jun. 1988).

ART-UNIT: 274

PRIMARY-EXAMINER: Bost; Dwayne D.

ASSISTANT-EXAMINER: Wyche; Myran K.

ATTY-AGENT-FIRM: Sofer & Haroun, LLP

ABSTRACT:

An interactive microprocessor based wireless communication device includes sound and data transceivers, signal detection and coupling devices, signal conversion device, voice recording, playback and storage device, voice activated device, display device, touch screen or similar device, sensors, frequency generation device, sound detection and reproduction devices and power source to concurrently perform generalized two way wireless communications, command, control and sensing

functions utilizing radio and infra-red frequency communication links. A microprocessor receives signals from the touch screen and generates a digital data, command/or control signal for transmission to external devices such as home appliances and remote sensors. The microprocessor also responds to voice signal commands received via microphone and a voice processor. The microprocessor uses this signal to generate data, command/or control signals for transmission to external devices such as telephone, paging and intercom systems. Sound signals may be stored in a voice recorder and playback IC for subsequent message processing and coupling to a transceiver and/or a speaker. Telephone ringer signals are generated by the microprocessor and are coupled to a ringer for audio output. In response to certain commands, the wireless communication device establishes a communication link with external devices using radio frequency or infra-red frequency transmission and/or reception. Sensor signals are created by sensors that can detect physical differential changes and that can convert the changes into measurements. These signals are coupled to the microprocessor for further processing, display and/or transmission.

34 Claims, 10 Drawing figures